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Approved For Release 2005/02/10 : CIA-RDP78B04747A001100020048-6

TID-7/67
11 January 1967

MEMORANDUM FOR: Chief, Information Processing Division, NPIC

SUBJECT: Microdensitometer Support Program

REFERENCE:

- A. TID-133/66 Dated 8 August 1966
- B. Letter, [] 12 December 1966
(with Enclosures)
- C. Letter, [] 23 December 1966
(with Enclosures)

25X1A

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1. Copies of the referenced letters with enclosures have been given to [] TDS/ESB. Also, [] of your Division has diagrams that completely describe the magnetic tape format generated by the [] Trichromatic Microdensitometer in TID.

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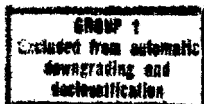
2. In order to utilize the large amount of output from the [] Microdensitometer for the purpose of image system analysis and photographic interpretation support it is essential that computer support be provided. [] has been contracted to assist the Center in establishing procedures and programs. NPIC project number 66109-7 has been originated to obtain IPD support to TID on the Data Corporation contract.

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3. The enclosure to reference C., 'System Considerations' contains recommendations for a photographic data processing system (PIPS). This is the system that TID/SIEB will eventually require. A general block diagram of the system is also included with notes. Within the system will be linkages that will allow for various program combinations to be utilized.

4. Reference B contains several program write-ups for programs written in FORTRAN for AFSPPT. Concurrently with setting up the recommended PIPS it is requested that IPD begin the necessary steps required to make these programs operational in the Center. In order

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to get the magnetic tape generated by the [] instrument into a format compatible with UNIVAC FORTRAN a universal translation sub-program (mentioned in reference C) will be required. This can be written from the information contained in the tape diagrams mentioned in paragraph 1.

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5. After obtaining the translation sub-program the program called [] should be changed to meet 490/494 specifications. The reference C letter contains notes referring to [] with program listing and card deck as enclosures.

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6. The following order of preference is supplied for the completion of the remainder of the programs supplied as enclosures to reference B.

- a. Granularity Measurement []
- b. Exposure Table Generator []
- c. MTF 166
- d. Inter-lab Data Comparison
- e. MTF 2
- f. MTF Using Optimal Filtering
- g. SINC Target Transform []

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7. It is anticipated that all these programs will become part of the PIPS and thus common features that exist in each may be used in common under the control of a sub-monitor. This should eliminate redundancy in programming. It is further anticipated that the programs listed in the Block Diagram of the Photo Data Processing System (reference C enclosures) will also need to be written. Specifications for these programs and others that may become necessary will be supplied by the [] during the contract period.

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8. The [] contract is a time and materials contract and is scheduled to run for one year, i.e., through 31 October 1967. The scope of work states that the contractor shall furnish qualified personnel and services as required to provide scientific and technical

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25X1A assistance in establishing operational techniques and applications for the [] Microdensitometer, as directed by the Technical Representative of the Contracting Officer. It further states that procedures requiring computer treatment will be defined to the point where programming can begin and test data for computer program analysis will be generated. It is therefore requested that full IPD support be furnished so that the objectives of TID under this contract may be achieved.

[]
Chief, Technical Intelligence Division, RPIC

Distribution:

Orig - Addressee

- 1 - Ch/TID
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